



Amy G. Rabinowitz
Assistant General Counsel

August 5, 2005

Mary L. Cottrell, Secretary
Department of Telecommunications and Energy
One South Station
Boston, MA 02110

Re: D.T.E. 05-22

Dear Secretary Cottrell:

On behalf of Massachusetts Electric Company and Nantucket Electric Company (collectively "Company"), I am providing responses to the Department's fourth set of information requests.

Thank you very much for your time and attention to this matter.

Very truly yours,

Amy G. Rabinowitz

cc: Jody Steifel, Hearing Officer
Joseph Rogers, Office of the Attorney General

Massachusetts Electric Company
Nantucket Electric Company
Docket No. D.T.E 05-22

Response to Department's Fourth Set of Data Requests

DTE 4-1

Request:

Regarding MECo. In the response to DTE 3-2 the Company identified the Customer Outage Hours by circuit, the Customers Affected by circuit; and the Customers Served by circuit; Columns 2, 3 and 4 in the following Table 1 reflects the sum of the circuit information.

Table 1: Circuit Information Totals

Column 1	Column 2	Column 3	Column 4
	Customer Outage Hours	Customers Affected	Customers Served
2001	1,931,323	1,349,209	1,028,487
2002	3,629,686	1,941,679	1,078,609
2003	2,020,635	1,537,077	1,308,417
2004	2,464,282	1,578,927	1,237,142

- (a) In theory should the sum of individual circuits (as reflected in Columns 2, 3, and 4) equal the Company total values that underlie the Company's system SAIDI, SAIFI and CAIDI values as reflected in the various Service Quality Annual Reports?
- (b) If the answer to (a) is no, please explain why.
- (c) If the answer to (a) is yes, are the values in Column 2, 3 and 4 identical to the Company total values that underlie the Company's system SAIDI, SAIFI and CAIDI values as reflected in the various Service Quality Annual Reports? If not, why not?

Response:

(a) Yes, in theory the sum of the individual circuit values as reflected in Table 1 should equal the Company's total values that underlie the Company's system SAIDI, SAIFI, and CAIDI values.

(b) Not applicable.

(c) The values in Columns 2, 3, and 4 are not identical to the Company total values as reflected in the various Service Quality Annual Reports. The values provided in the Service Quality Annual Reports are correct. The values submitted in response to DTE 3-2 reflect information for circuits that were in service on the Mass. Electric system at the time the Company's response was submitted. Some of the circuits that were in service in 2004 were not in service in 2001 and/or 2002 and/or 2003. Some of the circuits that were in service in 2001, 2002, and 2003 were not in service in 2004.

Distribution systems are very dynamic, and when load is growing at a fast pace the system is even more dynamic. Mass. Electric has experienced significant load growth over the past several years and as a consequence Mass. Electric feeders change frequently. In some cases, new feeders are added to handle the load. In other cases, feeders are reconfigured by moving some customers onto other feeders. And in still other cases, feeders are retired, especially the lower voltage ones. The Interruption and Disturbance System (IDS) has been developed to

Response to Department's Fourth Set of Data Requests

retain the current circuit configuration. That means that each month, circuit configuration changes are mapped from their previous configuration to the new configuration, so that the system reflects the current configuration and all previous interruption information is reflected by the current configuration. For example, if a feeder is reconfigured to move customers to a new feeder, then IDS will only show the outage history for those customers on the new feeder. Keeping records in this manner allows Mass. Electric to assess problems where the problems exist regardless of configuration changes. However, when responding to the Department's requests for historical data with historical configurations, Mass. Electric is not able to provide the level of detail based on the configuration that existed at that time. To keep records of that nature would require massive digital storage and complex programs to track configuration at any time. Mass. Electric does not perceive a benefit to capturing such information since it keeps the current configuration and associated performance for each branch.

Prepared by or under the supervision of: Cheryl A. Warren

Massachusetts Electric Company
Nantucket Electric Company
Docket No. D.T.E 05-22
Response to Department's Fourth Set of Data Requests

DTE 4-2

Request:

Regarding Nantucket. In the response to DTE 3-4 the Company identified the Customer Outage Hours by circuit, the Customers Affected by circuit; and the Customers Served by circuit; Columns 2, 3 and 4 in the following Table 2 reflects the sum of the circuit information.

Table 2: Circuit Information Totals

Column 1	Column 2	Column 3	Column 4
	Customer Outage Hours	Customers Affected	Customers Served
2001	4,168	4,161	8,977
2002	7,330	7,119	9,842
2003	4,814	5,337	10,279
2004	5,856	7,092	10,823

- (a) In theory should the sum of individual circuits (as reflected in Columns 2, 3, and 4) equal the Company total values that underlie the Company's system SAIDI, SAIFI and CAIDI values as reflected in the various Service Quality Annual Reports?
- (b) If the answer to (a) is no, please explain why.
- (c) If the answer to (a) is yes, are the values in Column 2, 3 and 4 identical to the Company total values that underlie the Company's system SAIDI, SAIFI and CAIDI values as reflected in the various Service Quality Annual Reports? If not, why not?

Response:

Please see the response to DTE 4-1. The same concepts hold for Nantucket Electric.

Prepared by or under the supervision of: Cheryl A. Warren